

IN THE
UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s): Nicolas J. Moll et al.

Serial No.:

Examiner:

Filing Date: Herewith

Group Art Unit:

Title: NANOSTRUCTURES AND METHODS OF MAKING THE SAME

COMMISSIONER FOR PATENTS
PO Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

This Information Disclosure Statement is submitted:

- ☐ under 37 CFR 1.97(b), or
(Within three months of filing national application; or date of entry of national application; or before mailing date of first office action on the merits; whichever occurs last)
- ☐ under 37 CFR 1.97(c) together with either a:
 - ☐ Statement under 37 CFR 1.97(e), or
 - ☐ a \$180.00 Processing fee under 37 CFR 1.17(p), or
(After the 37 CFR 1.97 (b) time period, but before final action or notice of allowance, whichever occurs first)
- ☐ under 37 CFR 1.97 (d) together with a:
 - ☐ Statement under 37 CFR 1.97(e), and
 - ☐ a \$180.00 processing fee under 37 CFR 1.17(p).
(Filed after final action or notice of allowance, whichever occurs first, but before payment of the issue fee)

Please charge to Deposit Account **50-1078** the sum of \$0.00. At any time during the pendency of this application, please charge any fees required or credit any overpayment to Deposit Account **50-1078** pursuant to 37 CFR 1.25.

☐ Applicant(s) submit herewith Form PTO 1449. References identified with an asterisk (*) were disclosed in Patent Application No. _____ filed _____, now U. S. Patent No. _____, and, as such, copies thereof are not included pursuant to the provisions of 37 CFR 1.98(d).

☐ A concise explanation of the relevance of foreign language patents, foreign language publications and other foreign language information listed on PTO Form 1449, as presently understood by the individuals(s) designated in 37 CFR 1.56 (c) most knowledgeable about the content is given on the attached sheet, or where a foreign language patent is cited in a search report or other action by a foreign patent office in a counterpart foreign application, an English language version of the search report or action which indicates the degree of relevance found by the foreign office is listed on form PTO 1449 and is enclosed herewith.

"Express Mail" label no. **ER212308341US**

Date of Deposit **Jan. 28, 2004**

I hereby certify that this is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to: Commissioner for Patents, PO Box 1450, Alexandria, VA 22313-1450.

By  _____

Typed Name: **Edouard Garcia**

Respectfully submitted,

Nicolas J. Moll et al.

By  _____

Edouard Garcia

Attorney/Agent for Applicant(s)
Reg. No. **38,461**

Date: **Jan. 28, 2004**

FORM PTO-1449 LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	ATTY. DOCKET NO.	SERIAL NO.
	10031291-1	
	APPLICANT Nicolas J. Moll et al.	
	FILING DATE	GROUP
	Herewith	

REFERENCE DESIGNATION

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	*	DOCUMENT NUMBER	DATE	NAME

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	NAME	TRANSLATION	
					YES	NO
		WO 03/050332	6/19/03	Lockwood et al.		

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

	US Patent Application Publication No. 2003/0170167 A1, Nikolaev et al. (Sep. 11, 2003).
	US Patent Application Publication No. 2003/0026754 A1, Clarke et al. (Feb. 6, 2003).
	US Patent Application Publication No. 2002/0136681 A1, Smalley et al. (Sep. 26, 2002).

EXAMINER	DATE CONSIDERED
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					YES	NO

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

	Jing Kong et al., Synthesis of individual singel-walled carbon nanotubes on patterned silicon wafers," Nature, vol. 395, pp. 878-881 (Oct. 1998).
	Christian Klinke, Jean-Marc Bonard, and Klaus Kern, "Thermodynamic calculations on the catalytic growth of carbon nanotubes," AIP Conf. Proc. 685(1) 447 (20 Oct 2003).
	Y. Zhang, Y. Li, W. Kim, D. Wang, H. Dai., " Imaging as-grown single-walled carbon nanotubes originated from isolated catalytic nanoparticles," Appl. Phys. A, Vol. 74, 325-328 (2002)

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FORM PTO-1449

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					YES	NO

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

	Georg S. Duesberg, Andrew P. Graham, Maik Liebau, Robert Seidel, Eugen Unger, Franz Kreupl, and Wolfgang Hoenlein, "Growth of Isolated Carbon Nanotubes with Lithographically Defined Diameter and Location," Nano Letters, Vol. 3, Issue 2, 2003, pp. 257259
	Peter Kruse, Erin R. Johnson, Gino A. DiLabio, and Robert A. Wolkow, "Patterning of Vinylferrocene on HSi(100) via Self-Directed Growth of Molecular Lines and STM-Induced Decomposition," Nano Letters, Vol. 2, 8, pp. 807-810 (2002)

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